

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A laminate, ~~characterized in that it comprises the following features: comprising:~~

- at least one layer comprising a resistance element [[(1)]]; and

- ~~at least one a first~~ layer formed of a [[fibre]] fiber reinforced thermoplastic mat [[(2)]];

~~in which the wherein said~~ resistance element [[(1)]] and [[the]] said [[fibre]] fiber reinforced thermoplastic mat [[(2)]] ~~are~~ laminated under pressure, preferably by vacuum moulding, and that the thermoplastic is melted under heat and then cooled form a lamination without any additional layer therebetween so that the resistance element is completely or partly enclosed by thermoplastic and consolidated as a laminate.

2. (currently amended) Laminate The laminate according to claim 1, wherein [[the]] said resistance element [[(1)]] and the fibre said fiber reinforced thermoplastic layer [[(2)]] adhere directly to each other ~~during the moulding process~~.

3. (currently amended) Laminate The laminate according to claim 1, wherein the laminate comprises ~~at least two layers~~ ~~(2,3)~~ a second layer of [[fibre]] fiber reinforced thermoplastic,

and in which the said resistance element (1) is being arranged between the two fibre said first and second fiber reinforced thermoplastic layers [(2,3)].

4. (currently amended) Laminate The laminate according to claim [(1)] 3, wherein said laminate further comprises at least one sandwich core [(4)] and at least one additional fibre a third fiber reinforced thermoplastic layer (5), so as to form a structural element.

5. (currently amended) Laminate The laminate according to claim 1, wherein the mould comprises there is at least one plate [(6)] which forms a base for the various layers in the laminate during the moulding a molding process.

6. (currently amended) Laminate The laminate according to claim 5, wherein the material in the plate [(6)] is metal, a carbon composite or another material or combination of materials which are thermally conductive.

7. (currently amended) Laminate The laminate according to claim 5, wherein the first [(fibre)] fiber reinforced thermoplastic layer [(2)], the resistance element [(1)] and the second [(fibre)] fiber reinforced thermoplastic layer are arranged on the plate [(6)] during the moulding molding process.

8. (currently amended) Laminate The laminate according to claim 5, wherein the plate [(6)] forms a part of the finished laminate.

9. (currently amended) Laminate The laminate according to claim 1, wherein the resistance element [(1)] is arranged for emitting heat energy ~~so that the~~ during a melting process ~~is supplied with heat from within~~.

10. (currently amended) Laminate The laminate according to claim 1, wherein the resistance element [(1)] comprises at least one elongate resistive wire [(10)] and wherein ~~[[each]]~~ said at least one resistive wire is provided with two terminals ~~(20, 21)~~ for connection to electric supply cables ~~(30, 31)~~.

11. (currently amended) Laminate The laminate according to claim 10, wherein said at least one resistive wire [(10)] is arranged in a pattern ~~on an area~~.

12. (currently amended) Laminate The laminate according to claim 10, wherein ~~[[the]]~~ said at least one resistive wire [(10)] has been imprinted or etched directly onto the first thermoplastic layer ~~(2)~~, ~~which~~ ~~preferably~~ ~~is a partly consolidated fibre reinforced thermoplastic textile~~.

13. (currently amended) Laminate The laminate according to claim ~~[[1]]~~ 10, wherein the electric supply cables ~~(30, 31)~~ extend outside the laminate.

14. (currently amended) Laminate The laminate according to claim 1, wherein at least one temperature sensor [[(40)]] is arranged within the laminate.

15. (currently amended) Laminate The laminate according to claim [[10]] 14, wherein the temperature sensor is arranged within the laminate and close to the resistive wire [[(10)]], so that [[the]] a melting process which is supplied with heat from the resistance element [[(1)]] may be controlled with regard to the temperature.

16. (currently amended) Laminate The laminate according to claim 1, in which the resistance element is ~~present as~~ a silk screen imprinted or photo-engraved resistance element [[(1)]] comprising a resistive wire [[(10)]] in an insulating matrix [[(50)]].

17. (currently amended) Laminate The laminate according to claim 1, wherein the [[fibre]] first fiber reinforced thermoplastic mat includes non-conductive reinforcement filaments ~~(26)~~, preferably of glass fibre filaments.

18. (currently amended) Laminate The laminate according to claim 9, wherein [[the]] said resistance element [[(1)]] comprises at least one elongate resistive wire [[(10)]] arranged in a pattern which forms a preferably closed electric circuit, and in which the resistance element is arranged for external supply of electric energy via induction.

19. (withdrawn/currently amended) A method for manufacturing a fibre reinforced laminated resistance element, ~~characterized in that it comprises~~ comprising the following steps:

- arranging at least one resistance element [[(1)]] together with at least layer of a mat [[(2)]] of reinforcement fibres [[(25)]] and thermoplastic fibres [[(26)]] in a mould;
- moulding the resistance element [[(1)]] together with the fibre reinforced thermoplastic layer [[(2)]] under heat so that the thermoplastic fibres [[(26)]] melt and fill the fibre reinforcement [[(25)]], and under pressure, preferably by vacuum moulding, so that they together form the fibre reinforced laminated resistance element.

20. (withdrawn/currently amended) Method The method according to claim 19, which further comprises the following step:

- supplying energy to the moulding process completely or partly by means of the resistance element [[(1)]] itself which is to be moulded into the laminate.

21. (withdrawn/currently amended) Method The method according to claim 19, wherein the resistance element [[(1)]] is formed by etching of a metal film onto a layer comprising thermoplastic.

22. (withdrawn/currently amended) Method The method according to claim 19, wherein the resistance element [[(1)]] is formed by etching of a metal film onto a glass fibre reinforced layer of thermoplastic.

23. (withdrawn/currently amended) Method The method according to claim 19, wherein the mould comprises at least one plate which forms a base for the various layers in the laminate by moulding.

24. (withdrawn/currently amended) Method The method according to claim 23, wherein the plate is integrated in the laminate during the moulding process so as to form a part of the laminate.

25. (withdrawn/previosuly presented) A laminate produced by the method of claim 19.